# Che Alimíng Sourwal 

## AND COMMERCIAL GAZETTE.

No. 21. Vol. 2. LONDON, SATURDAY, JANUARY 16, 1836. Price 7d.
$\mathrm{O}^{\text {V SiLE-At the Ofice of CHARLES MANN, Stork and Share }}$
 antice
bissoe bridge mining association. THE SAREBOLDERS are herby informed, that the payment of

colombian mining association
Thie Eleventh general ANNUAL MEETING of the Pro

s, Freeman'b-court, Corraill, , th January, 1286.

## to mining companies, agents, and others.

A PERSON repectaly yonneted, who has been aceutwed to the
 T REVORGS SIVER, COPPER, mid MiNISG COMPANY



hounts bay silverlead, copper, and tin mines,

royal cobre mining association.
Notice is hereby given, that all hiliders of Sharecmen ine the above Nomine is hereby given, that all holers of Shares in the thove


## $\mathbf{U}$















 Cuablon Cour, IIroua Street, Jan. 13, ines.
M OUNTSBAY SILVER, LEAD, COPPER, And TIN MINES









 CORNWALL-CAUTION TO MINERS AND MINE ADVEN. Wereas the Dule of Buekinghim nod Chandor is the sole




## 1 istan in Trarahes for sale.


Chester, wrexham, and ruabon railway company



 of Moboi poupertace
National pneumatic rallway association







glasgow, paisley, and grekfock rallway.
A T PUBLIC MEETING, held in Gimonek, on the 2sth ull:-

















just published, in ato. with four plates, price ito Te philosophical Transictions of the hoval so





 | Abstrats of the Papers Printed in the Philosophical Tranaetions, |
| :--- |
| vole ero. 1se, |






ATa genebain heeting ming interests.









TO CAPITALISTS DESIROUS OF EMBARKING IN THE

THE PROPRIETOR of A Mierral Extate, abounding in wiem of





FuMLY ENDOWMENT SOCIETY, for Eryanting at ar aner the
omece (temporary), ss, areat Whar titer. ©tree.
captral Asoceno.







 Thale fir ia Years




 Mentione we
CORNWALL GREAT ENITED MINES. - 6,000 sharee 1412 pr












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 Nom




THE MINING JOURNAL.

 SOUTHEND RAILWAY, in continaation of the Bilackwall RailwaySur capthit





valuable shares in south roskear copper mine, $T^{T o}$
perempterily, nld by Anetion, THREE PIPTY-EIGHT PARTS


 $\overline{\mathbf{W}^{\prime}}$

## 




Wheals harmony and montague consolidated cop.
per and tin mining company. TuE Dingecons impresed with \& conicition of the great valuu of



























MEDITERANEAN And LEEANT STEAM PACKET COMPANY:


TO FOUNDERS And ENGINEERS-The Directors of the SOUTH



Wedil he ready for Sale earty on Janury,







The walis. End Miner. By James Everett, Author of the


TO be SOLD by Mr. GRYLIS, Redruth, the following SHARES
TO be Sol.D by Mr

towedteague mining compan
To the Editor of the Mining Journal.
Sin, - Until this moment my engagements have prevented my stating,
that the publicity given to this affair has very much annoyed me; not aid
 vither arranged, or mas informed, of the course my friends (perhaps with
lem judgment than kindress) ) inemded to odopt, to obtain a return of the
 of the meting until the following Sunday's pont. It woutd be a tedious
enerochment ony your Jourral to enter into any detail of circumstances
 tharecholders, but on county and other evidenece top prove the inocrecectese
of Capt. Widey's tatements, inerted in your journal. 1 I lave the di



economy of steam power.
To the Editer of the Mining Journal.


 ing that if steam be permited to expand into $5,10,20$ or to times its ori
inal volume (cateris paribus), its presure will be refued rexpectively Ho do or lo of that thich it at first exerted on the same arca.


, Morrab place, Penzance, Jan. 2, 1836. $\qquad$

## real safety lamp.

To the Editor of the Mining Journal.








 Committe bave dizoorered means of provening misise eili, it thered te con





 Robents's Savety Hood on Mouth Pieck.
This rery ueful apparatus has been submitted to the examination of
tientific bodies, and reecived from them distinguished marks of appron
 stended notice, and therefore estract that portion of the evidence give Mine t," as relatiamentary to conmissionen, origin, construction, and upor uppon "Acecidents in
machines. machines.
Did you meet with necidents from earbonic acid gas while you were in
 his time the fireman, who took care of the furnaces, had, thrown a froch I was neary suficatad. II struck me at the moment to wrap my jacket om of hes haferit 1 fouppene it to we verry moist, and when 1 got to the bothad taken place in the apparent state of the air. Some time after I was
thinking orer the matter, and it oceurred to me that the cause was the woollen and the perspiration with which it was saturated thate preserved mee in this instance. From trying further experiments in the same shaft,
mound $i t$ was the wolle found it was the woollen whieh had moistened with my bottle of
water. I turned this mater orer in my mind, and was ted then
 phere. any instrument for the purpose of furnishing respirable air the
rewult of your consideration -Now will you explain what that instrument is! It is called a safety-
hood, or Roberts's mouth piece. Lord Lindsey, now the Earl of Balcarras, ${ }^{8}$ His Lordship ap

Will you explain as concisely as possible the nature, the form, and con-
struction of that hood! The hood closes orer the head, with two glass Oo what is it tandet-Of wash leather, and stuffed with wool and horse-
hair, so as to make it pliable round the neck, and prevent any foul air drawing underneath. From the moth there is an elestic pipe which
comes a litle way down, at the end of which pipe there is a peevel containing lime water (then, evean of lime), or chloripe of ore lime, according to solutions are applied in various chemical works, the chloride of lime,
 Now what is the size of the vessel holding any of those liquid preparations to which you hare alluded 1-It will hold about 3 quarts; there is
some sponge which is filled with it, so that the air shall pass through fine Is it one solid sponge, or pieces of sponget-It is immaterial whether Then the funnel or lox in which the sponge is contained, is perforated
 Then does the bor ried with a bett over the shoulder; it hangs down mover the side, to that
tere is no prousere from the
 not remain with it more than half an hour at the longest.
 Now hare you tried it yourself in cartbonic acid gas? 1 have tricd it
myenf; remained 39 minutes. gas wat inp unen quantities, and so powerful as would immediately extin-
mish life? And you found no diffeuly innoverexsp
ithe experiment?-Some litele difculty
 air is spearated from the bad ; it is thrown out by means of a valve at the front of the mooth, on rather there are two valves, one is to admit a sup.
ply of purifed air, and the other to pass off the air which has beven Now hare you ever had this instrument tried in foul wells :-1 have
not been in foul wells. Have you ever tried it in cases of fires ?-I have tried it in casses of frees,
tho in the mines.
 supplics from me, to prevent their inhaling the nitrous acid which arises
 fion of coushing, and platercs, the people very offea under the doctor's
hands, and tin the end kills them.
 Lorn out, they applied to my friend, Mr. Upton, fors others, be being in
 De you mean to say the work men had constanty made ne of your ino Plan has beeca brousht formand of a plations rewed dizenlving goll, over
 Then they are now constandy in ure on the impround plen!-1 have

Noor, wuad you hesitete to dowerend any mine charged vith carbonic oid sas anter an explowion, porovided voith this apperatus, to drue ont the That is to thave foll conestroce that.



Are you sware of your fint apparatas being tried in France)-Yee Where Wed stod. that in some ssern, or under-ground excarations !-It was in a Notr that bai bexa closed for 37 yoart Hiad iver wormea 15 gars previous:
Dide an sutempt Thy in entering it-1 meceeded when DAArey, the greai


 enably. Ther you would recommend every mine subject to carbonic acid gas
providel with your apparatus!-Yes, for fear of accidenas from me

 at hand-Yes, decidedly so ite the water when you go into places filled You do one, pur youy- They may put time, or sapp, or soap lees, of rut
oith smoke , tse sponge over
ruent in a moment
What is the pri What is the price of your apparatus now 1-It will be about
 the society of Arts, and their
George the Fourth rewarded me with his royal bounty of 1000 .
 Pany, and readily insert it, as, from the details it eantains, answers win
be found to most of the numerous enquiries which have been put to us

 auspices of the Right Hon. the Chancellor of eompany, when the capitu),
Ricce), who presided at the frst meting of the our
 anpening and working the numerouss mines of copper and hea, coliteries
and state quarries under lease to the company, as doseribed in the subjoined andmary of the board's seport

 opening
added to the companys capitua stock. In the report is setailed the progress made, and the present prospccts
In and it concludes as ofolows.
and with propricty conclude their report, but
UHere our
toard might




 one only has yee becn estenively worken of duperior quality ; the averase
been found to yiedid copper and teal ore of








 quaned within the last halt-ycar, and found io yeled copper one hed Hero




 to to dhe colthief ofres io eisizh thatroy of stierariagh, under lave to the cam.






 Sase pre ane


plied in priaping, ia raising the slate blooks and rublich, and ia saviag "The re near Cloomel, held, with 10 to tres of land, on lease for 31 yeans, from,
 in the nest conounicel, reovivieg the water in succession, are applied in pumpias, winding, and the other aperations ia progress; and your Boarc have a favourable opinion of the fature productiveness of the concera. your Board of Management, it may be necessary to remind you that, in your Board or Management, it may be necessany to remind mines not worked at prescet, which mayy be paened when price
or otber circumstances shall afford suffieient inducement. be adrisable to advert to the Company's stock of mineral prodsee,
mountiog to $\mathrm{E} 19,927$ is and to the debt due by Lord Audse, c10,788 98.10 . 10, on mortgage of his estate in the county of Cork; also osveral raluabie farmas and other properies, panct forth in the abstract of accounts presented herewith. Report and explanation, with the suboined abstract of accounts, will afford to sharehollers the informacion gress of your works." N. B.-Messrs. Foster and Braithwaite, 64, Old Broan
charge of the Company's books for trassfers in Loadon.
 The founder of the Foley family, whe was a fadler, living near Stour-
bridge, was often witnoss of the immense labour and loss of time caused by dividing the rods of iron, pecesary in the process of makiag anils. The as first made in Sweden, and the consequesce of this adrance in art mere nast disastrous to the manafacturers of iron about Stourbridge. Foley the fidder was shortly missed from his accustomed rounk, add was
 and, without commanicating his inteation to a single human being, he pro
ceded to Hull, and theoce, without fuads, worked his panage to the wedish iron porr, whe iron foundrice, where, after a time, be beeame an univessal favorite he iron foundrics, where, anter a wime, he evare abnence of intelligenee
ith the workmen; and from the apparent entire or any thing like ultimate ebject, he was received wats the thes offred, and
part of which he bad aceess. Hie took the adrantall the combinations, he haviag storal his meamory wis kins friends as he had appeared, no one
disappeared from amongt has
new whence or whither. On his retarn to Eogland he communicated his new whence or whicher. Mr. Knight and another person in the neighbour
voyage and its results to M. were erected, and machinery provided. When at leagth everything wai
prepared, it ase fould that the machinery would not act; at all events in did not answer the sole ead of its erection-it would not split the bar of
iron. Foley disappeared again, and tit was concluded that shame and nortifcation at his failure had driven him away hor to the Swelish ironworks, where he was reecived most joyfully; and to make sure of their
fiddler, he was lodged ie the splitiong-mill itmelf. Here was the very ain addier, he was lodged is the spituing-mis utsont hope. He examined the
and ead of his life attained byond her works, and very soor dicosced and, having abided an ample time to verify
Jrawigss, rude tracigss
his observations, and to impress then clearly and vividly on his mind, he he made his way to the port, and once more retarisits of his experienc
time he was completely suoessful, and by the sesults. This 1 hold
nriched himeelf and greatly bonefited his countrymen. es.
Miseasi. Whastri of Spais.
Mines of gold and silver were formerly both numerous and very pro
(uctive in Spain, but since the diseovery of America thry have beco almo
 The principal mineral wealth of Spain consitsts in its quicksilver mines
at Almaden, situated in the province of La Manche, and which are worked on account of the Crown; indeed, Spain supplics the greater pare of the
world with this metal, there being no other mines of quicksilver of any
 continue very productive; they are situated is aseedingly rich, giving an
contain three principal veins, one of which is ex
much an ten ounces of mercury to the pound of ore. The averafe quan tity of quicksilver raied ercry year at Almaden is about two millioss on
pounds weight. The produce of the mine is at proent sold under a coll
tract
 were exported to Mexico, and round Cape Horn.
The only Copper mines at pruent worked in Spain, are those situate at Rio Tinto, in the province of Jacn, the ores are alid to be fich, although
dificult of reduction, being mueh mised with iron.
These mines aloo belong to the Crown, and bave latterly been wortied under the direction of some Sweedish miners, but from the want of proper
enecoragenant the produce in inconsiderable.
The lead nines at Linarez, also situated in provinee of Joen, are
very rich, and have been worked of late years to a considerable extent, very rich, and have been worked of late years to a cosaider able entent,
arge quantities of lead orse having leen ent to Egland for reduetion,
from some impediment however the export has liaterly ceased altogether.
 and malleable iron, almiraby the mountains, the prineipal of which ar
mines are moty sitated in
those near Mondragon, and Solmorostro, near Bilbo. The provisce year, but the detroction of the forcats sud consequent searcity of moin
for making charconl, has very much reduced the number of forges and

 Sorcana, likewiene worked on aecount of the Crown; the ore is very abua


 of salt are made from the salt springs in Murcia and Valencia. Thic
re also very cotesive salt pass in the Bay of Cadia. The marble of spain are both numerose and valuable,
bose from the quarries of Murcis, vilencis, and Grasala

## IWe make the following extrect frows a very interesting and amueing




 corering mineen: -
Thethon of thitariase in to bexin with the ereation, where-






 ohowing uhat rar concigmity therro is betweea the stars, plamist, maimale;
 interyretation of Adam's history, "of whom, he whe "1 mimhid that


 supported with timber, so that the sole or bettoen of this adit many answer
the botow of the thaf, but oonewhat luwer, so that the water may hare Fufficient curreat to pasas away, which is exacly known by the ontiang way of dialling, or the workman' ${ }^{\text {a }}$ kecpias the water ath his foot when a lomptone, the wing whereof is called dialliag, and by this aud othere

 litte hole in the earth, and lay him on his belly with,")
frexh earth of that hole which ppeedily recowerdh
traditionary pragments of mining mistory,

## 


#### Abstract

2an: $5=$  ooothing thinges, in the true spirit of a messenger of peace. But on catching comenenced laughing as heartily as either Boniface or the Piskey; and although he beat an equally quick retreat, he namrowly ecaped being ruin Having made a safe   protection of a flag of truce. Mrs. Drippingfat, havithg put on her mook  Captain Joe followed her like a lamb inte the pantry, overhauled its con ent-made his choice before the kitehen fire. (To be continued.)


## NOTICE TO CORRESPONDENTS.  

THE MINING JOURNAL nd commerchl gazette.

## Lowion, Janaary 18, 1386.

The observations which we felt ourselves called on to make in our last two numbers on the subject of the formation of companies and directorships, have very naturally been somewhat unpalatable to those to whom our remarks were more par-
ticularly directed; while others have considered them as too generally condemnatory, and thus including several companies to which they could not be said to apply:-that we may at course we pursued, perhaps a word or two in illustration of the correction of our position may suffice
The object we had alone in view, was that of attracting the attention of those who are about embarking their capital in mining operations, to the class of merchant directors resident
in Cornwall, who are too well informed not to admit the justice and force of our observations as relates to supplies ; for we noed only refer to scenes of almost daily occurrence in the county of Cornwall, of disputes amongst themselves as to the charges made for materials and supplies to the mine, although they go upon the system of "Give and take, to he lupes of out in cautioning the public, ere they become the dupes of success of the adventurers.
It is without regard to any particular mine or board of directors that we speak thus plamy ; for it is only necessary
for the public to ask themselves one or two questions with the prospectus before them, to form their opinion as to the objects of the promoters of the undertaking. First, let them enquire Who are the partues, if Messrs. $\boldsymbol{\Lambda}$. B. and C., as self-appointed
directors, are they men of known character and respectability, are they directors in other concerns of a like nature, if so, how many, and are they making directorships a trade-or are thoy interested in selling the mine which they profess to manage; or perhaps it may be found on enquiry they are merchants, as in the cascs referred to, who supply the mines with materials of inferior quality, at an excessive cost, having the anditing of their own accounts,
the necessary funds.
So lost to every sense of propriety or delicacy, are some of
those parties that we find directions formed of Cornish those parties a
chants without a London adventurer, although it is to London they look for the capital, while we have every reason to believe that the concerns they are desirous of foisting on the public have been already tried unsatisfactorily. Unsatisfactory we will admit to those who have lost their money, but satisfactory at least to those, conversant with mining, so far as to enable them to
arrive at the conclusion, that the mine is worthy another trial, and that is to sell her.
We last week adverted to a Company, in which we stated that the qualification of the Directors formed about one-third of the capital considered necessary for effectually working the mines, and therefore expressed our surprise that it should
have been found necessary to form a Public Company to raise the other two-thirds, or about 3,000 . As we are informed that we were rather hasty in drawing the deductions we did, we
are most anxious to set ourselves right with the public, and place the subject before them in its proper light.
It appears, then, that the 350 shares taken by the Directors as prietors " had agreed to part with," reserving as they did the prietors " had agreed to part with, reserving as they did the
remaining 1000 with " $£ \delta$ per share paid thereon," as the consideration or purchase money of the mines: but it turns out that that unwittingly the secret is out the directors are the sellers of the mine in question, they take their 350 shares with $£$ paid, so that no capital is required from them while they coolly pocket $£ 5000$ as purchase money. It is such acts, as we have
hefore observed, that bring mining into discredit, and we cannot too frequently caution the public in joining schemes of this nature, nor impress on them too strongly the necessity and importance of enquiring for themselves into the objects of the One worl mere as to
One word more as to merchants and their mines, and the system pursued by mine brokers or share-jobbers; a class of
whom we shall hercafter have occasion to speak. One of the Prospectuses which has come befose us is to work a ceriail Prospectuses which in the county of Cornwall; some shares in which friend of ours purchased at some $\mathbf{£ 3 0}$ or $\mathbb{£ 4 0}$ per share in Liend of while they were to be had at $£ 7$ or $\mathbf{~ S}$ in the county; but then he had the adrantatse of the aid and local intelligence of a Cornish mine agent : this same mine was tried we suppose, we must say only partially, and was considered, we have wome reason to believe as worthy of being knocked; but, say the merchant-directors, give it one soore trial, if it will not work with advautage to a private company in 64 shares it may to a public one; and as we multiply the number of shares, so are
one thing we are certain, if we form the direction ; if we supply he naterials, we cannot lose much, and we can see that no one mposes on us however we may impose on others. Bat we judge for yourselves-ask who are the sellens? what the wice before you part with it once.-It may go into safe keep-ing-that is, to be kept.

## THE FUNDS.

CITY.-FRID
The occurrence of two settling days this week, viz: in Consols and
Oreign securities, has not produced much movement of any kind in the funds. The opening or account day in Consols took place on the 14 th,
and exhitited on the whole, a surplus quantity of stock. This symptom, on the security of Consols from the Joanuany to the Pebraury account not
hating exceeded 316 , or about 2 per cent., interest for money. It turn
 of the pub.
advance.
Consols
Consols, which commenced on Saturday 911 ex div., close this even-
ing 901 91. Exchequer Bills and India Bonds remain nearly as last The Poreign Bond Account of the 1 Sth was setted to day, and having
heca preceded, as on several recent oecasions, by the sales of parties who appear to be desirous of realising the profit resulting from the late advance
in Spanish Bonds, the pries of this security delined yesterday to about
49t. The pressure abated, however, at the close of the day actual settement of the account this moraing, the Bonds again advanced
and close this evening at 504 . Upon the whole, the prices of Spanish Bonds have been heavy for som
days past, the public here and at Paris not appearing to coincide in days past, the public here and at Paris not appearing
nion with M. Mendizabel that the affected and prolonged mystery in opinion with M. siendizabel that the aficeted and prolonged mystery in the
plan of finanece must by any neeessity portend a favourable result. O
the contrary, it is generally believed that a considerable defciency mu exist, owingt to the extraordinary war expenditure, and the publicichere and
on the Continent are therefore looking with much anxiety for the solution of the question by what means is the deficit to be supplied. The continued
delays of the Spanish Government in the measures which were exp be speedily is disposed and the belief of the bonn the straighe Spanish Governmen to be ebiefly sustained by the circumstance that the Ministry do not appear as yet to have lost the support of the patriotic party in the Chamber.
The other reports this week as to S panish aftairs appear to be of vourable character. It is stated that the Commereial Treaty which has pended for the present at the request of the former, on the plea that it wil be more consistent with the honour of both parties that the Treaty should
ee finally settled when the period arrives at which Spain, being released
俍 terms.
With
$\qquad$ mititary stores to a large anount, may as frecly and consistently propose
oo Parliament a guaantece for any aid required in money. Whatever be the destiny of Spain, whether the great economic revolution now in pro-
reas is to be effected by peaceable means under the constitution of the
Chambers, or byan it is strongly felt here, that it is the interest of England to assist in the revival of energy, self esteem, and national government in Spain,
and consequently to
reseue her from Foreign inflence, and restore Cop policy of this country to favour loans of money to the Spanish America Colonies, (amounting to a nominal capital of 27 Millions), in order to res it is strongly argued now that it is also the duty and interest of this Goernmeut and people to assist the spanish nation in throwing off the yoke
othe Monks, with all its depressing influences upon industry, intelligence, and national improvement.
With regaril to int
With regard ta intelligence from other parts of the Continent, the week
has been singulariy barren. By aceounts received from Paris this morning, it appears that French 4per Cents. rose on Wednesday to 102.
Notwithstanding this encouraging circumstance, it is believed that the
French ministry, which is in reality anxious to reduce the 5 per Cen to 4 per Cents, will not, in fact, do any more this session than to revive
the discussions upon this subiect in the Chamber, with a view of attempt ing the general reduction in 1837.
Private leters recenuy received from the Continent, written by persons
generally well informed, state that the relations between Russia and Eng and are such, that in the opinion of many, war is scarcely to be avoided.
It is affrmed that in answer to applications from England, the Austrian England and Russia, Austria will be an armed neutral. It is alvo under
tood that Prase circumstances are by no means favourable to this Country, it appears to agree to any terms which this Country may propose with regard to the
Dardanelles as necessary to our security in the Fast. In the meantime, it is sevident that although the actual circumstances of
this Country are flourishing, yet that the two great political parties, which actiously opposed to cach other, than on previous occasions; that the cur policy, nod it would folisw, under to curb Russia were a matter of evident
ittle probabers, that as there is but ant union of partics, even upon a national question,
hat there is therefore but little chance that peace will be dister In all the markets for Forciga Securities, excepp in spanish. Bonds,
ranaactions have been upon an extremely moderate scale, and the prices The market for Railway Shares has, however, exhibited a striking con
Thast to the others. The adranee which oecurred tast week has been fol. moed by a further rise since Saturday in the prices of many of the Sharce,
more particularly in those of the London and lirmingham, Southampton,
Gravesend, Crydon, and Stephenon's Brighton, for all which there has been a considerable dewand during the greater part of the week. Brighton
Sharec have becn in a very excited state this morning, on account of a
wgociation for a junction, which has for some time becn pending
 appears that the Directors of Gibb's Brightan will suypend the exceu-
io of their line by Mersthan this session, and that a junction will take
place between their line and Stephecoson's at or near Epsom.
 riderably,
Prices of the leading Railway Shares close this Evening as follows,


## Untox Gold Mises.

Intelligence ap to the 12 th nult. has been received from these mina,
whereby it appears that the No. 3 veia has been cut hrough in the Gethe
cross-cut froun Readiag's shaft. The rein is large, shent croms-cut roon Readiag's shafi. The rein it large, mbout 4 feet whith,
composed of several branches of quart, internixed with taleose
dissiminated
with
vin
on
on ,
1t has been doubted by some pracial men, wiether the expeneed



 economical in respect of fuel to heat the air in the smelting furnace, whem bonic acid gas, or to heat it previously in a separate furnace! The experi.
ments at Clyde iron-works show that it is with one eleventh part of the fuel that is required to heat it in the smelting Urnace, when allowed to come in contact with the coke. One reason wify
this should be the case is obvious: in the smelting furnace the air it Indivith coke, in the separate furnace with coals. Individuals who have written professionally on the subject of iroe
melting, have noticed as frets two circumstances which the experience of verkmen generally corroborates, but neither of which seems to have been
very stisfactorily accounted for. We allude to the that although a strong and steadily sustained blast is pracetical to the ery, uction of a large quantity of metal, and is of itself the improvemen hich mainly characterises our modern furnaces, yet that there is an unfurnace, beyond which the effect is blast, or amount of air blown into the of reducing the ore. It appears then, when the volume of air injectedion by promoting combustion in the ratio of its impetus, it is carried through the materials unconsumed, the cokes at the same time being blown away before they can efficiently co act with the fluxes; in consequence of which the
ore falls sither not at all, or but partially liquified, into the earth below. To avoid this evil, and at the same time to bring the blast to beart opon as
large a surface as possible, it has been introduced on opposite side of the Trge a surface as possible, it has been introduced on opposite sides of the
furnace, and by this it has been most largely and economically applied. upwards of seventeen thousand gallons, and at a pressure of two and a half, or three pounds per syuare inch; if then it be correct, as chemists
have asserted, that six inclics of vital air are abserbed in ard individual of our species, the quantity of this element consumed by may be added here, as giveqg some idea of the consumption of fuel in the
melting process alone, that according to computation the smelting process alone, that according to computation, the iron-works of
Carron, in Stirlingshire, burn annually as many coals as would be required
by a city containing 700,000 inhabitants.-Cabinet Encyclopedia.

Stone Quaries.
geological sense. There is no tract of country in the in
equal extent, that has such vast reservoirs of
none that hatas none that has so much and so good building stone. Our mand and there obtained at a comperatively trifling expense. The are good, and may朝h have been made in the constriction of bricks, and their sements tone. We have, however, many evidences of the great antiquity use of art of building in stone. There are in existence not only remains, but wonder, even at the present day, some from the elegance of their form and others from the immense size of the materials of which they are con
and
Stones for Masonry. - The stones most commonly used in England f land stone, and Granite. Reigate or fire-stone, is a frestone, capable its name imports of withstanding the effects of fire, and is therefore
used in all those parts of a building where it is exposed to its action sued in all those parts of a buiding where it is exposed to its action,
such as hearths, ovens, and stoves. It is chiefly obtained from Sussex is capable, from its sery tone, and is chiefly used for pavements. smooth face, and will bear a slight polish. There are several frestone, and they are obtained in diffirent places. When first take from the quarries, frestone is, in general, very sof, but by exposure to
the atmosphere becomes much harder. It may at first be eavil) a common saw, and may be worked almost as casily as a piece of timber
but atter exposure to the atmosphere for a few wecks, it becomes very Wut after exposure to the atmosphere for a few weeks, it becomes very
hatd. Bathstone is one of the best freestones obtained in this country, for it has, in an eminent degrece, the property of hardening by exposure
to the air, and is not apt to chip and peel as many others are. It is a fine sandy grit of a whitish colour, and from the ease with which it is worked,
is well adapted for chimey pieces, jambs for window, and doors, the
dressings of windows, and for other exteraal work. Portland stone is Aressings of windows, and for other exterasal work. Portland stone is
pomewhat similiar to the purbeck, but softer and aniter, is raised in muel
larger blocks from the quarry, and is of very extensive use in building it will not, however, stand the fire, but well endures the vicissitudes of the
weather. It is, perhaps, the best common stone for building, having sufficient hardness, durability, and equality of texture for every purpose i
building, added to which its conparative cheapness, and the large size in which the blocks are or may be raised, makes it vastly superior to the
purbeck. Granite has of late been very mueh used in building, partieulariy
where strenghth and durability are requircd. This stone bas crystalline strueture, and rosists teque usual methodon of borking. It is re
dued to the form required, by pecking, with a kind of hammer, some What similar to a piok-axe. It is found in large quantities in many part
of the West of England, particulary is that district called Dartinoor's,
near Plymouth, though it is a prevsiing rock throughout Cornwall. it also abounds in many parts of scotiand, that brought from Aberdecenshin is much estemed. This stone is particularly valuable in those situations
where there is much war, as, for instanee in the steps of publie buildings
The curb stones of pavem,
 Smeaton's Buider's Manual.





Meteoric /ron.-M. Gruithausen of Munich, has discovered induDise proots of lunar habitancy-high roads and a colossal edifice
-perhap a lusatic asylum; a rill-road, to ascertain the accu-
acy of the discovery, is announced, and the surveyors are the racy of the discovery, is announced, and the surveyors are the
Mesors. Green. By, the bye, why should not the lirge pieces of
iron, found in diferent parts of the world, and which astrono-
mers and geologists tell us have been ejected from the meon be men,
mers and geologisists tell us have been ejected from the mocon, be
part of an ood rail-road, or the exploded portions of a boiler ?
Menai Bridge.-In that wonderful ster ion bridge, the effect of the expansion and contraction of the clainan by heat and cold is ingeniously provided for, by passing the chains
over rolliers placed upon the top of the towers over which they are slung. In $1 \times 00$, when the mercury was 18 deg. below the freexing wwenty thousand tons, had risen sux inches and a half above its
level, and the extremes between its relaxing on the hottest, and its contraction on the coldest day, is more than a foot.

## AND COMMERCIAL GAZEITE.

MININOBTATIATICE
the great consols.
We bave jutt been informed that a very valuable divecorery bes recenty Leven made at the bettom of the Great Comosis mine, in the parish



 thoms further being worked to the extent of their povert, from forty to fify







 notzie, he seame ngine the hitherto slugzish machine came in and out
made way for piugsers
of doors with almost equal ease, aod the most incradulous acknowledged her erimost unlimited poser. We now see the anticipated power of thi
-onderful machine multiplied, how many fold we are not sufficiently vereel in hydravies so determine; and the engineers, who sol lately figured in the celumns of the Mining Journal, having one and all simultaneously quitted
the arena, we must no doubt remain in bleseel ignorance of the matter. One thing, however, is certain, we bebold the wonderful productions of our viluabie mines extending to far more than do bite the depht to whinh in
the old " "high and palmy state "o mining they were considered to extend ore extending, to be a tatined. We behold these indispensoble treasures still
estending, and still attainalile, through that potent agent the stemm engine,

 within the memory of our sires, and not a a litle of them indeed before our
 penetrated the erust of our globe, who will dare to limit the boundary to
which the raluable mineral productions of this country may extend, or to connine that expansive force by which they are so readily ani so proftably mained
mining correspondence.





 is feet. We have forked the water to that depth, and our shan men men have
been

 at Stainst's' engine shat twill be completed early in the ensuing week, and
Aliso at Thomas's whim shaft, under the midele level. At vice's shant we




















 be ubliged to re-let them.
 he erose eut from the ner engine shaf in Wheal leeds, at the 20 fathono
 *ek with in inewesel energy; we shall also explore the old working as ar

 it became neevary to work the engine considerably faster, and
pleasure in saying it has done so in a very satistactory manner.
 below the 10 fathons, level tince the thh iant, but at that level extending

 The engine shaff iv sinking in killas of a kiadier and worier teseription
than 1 hare observed for teveral niontha.
W. Pkrukatck.



 quence of the water-the shaff is now dy, and 2 fathoms more will put it
 the heary falls of rein wo have had. Jives Gaipe.
 pect a favourable change shorly, as the lodes have been in several paric
of the mine subieat to eno ent instanee. The extent of grougi ece to the men on Saturiay hae pree in consequenec limited. The neen lode et the to fothom level hay heen juwt
 New Caessio Misixa Cospany, Jan 11 , 1836- We have now
cut the lode in siaking the shaf under the SS fathom level, which has

 Kınnow Misise Coupanv, Jan. I1, 1836-Having driven the two
cros levels a sufficient distanee for the objeets contemplated, we have pu ne or he psirs or men to drive the alit wet, where the lode is large
and has a very favourabic appearance. The other pair of men we shall
























 qualy.

|  lowering the water, and it is probable that in a fortnight, memay meel the botioms of Cocina agrain, which is about the time stance io my hast. A transvenm section of San Jose and Conciece diving the bottom crous eut, reet intea of tiedepth at which me prope <br>  <br>  Trom this new plan, sre ifst, that by the 170 no re croses rut, ealled the Conejera, and also prepare ventilation and finteay in , be Harrameo worko. ble; wecondly, that it will toe les dangerous to work ou. "the pillare by 200 ng lana by rixing, and this would be the case if $w=$ on vare erose <br>  |
| :---: |





















 It beg to acknowidget the reecipt of the Boands, leter, original, dated Hya referenecto to the Gold Book I And that the produce for the leat
ten days hes beenProm the stamp:
Yrom Haifelt' can


$\qquad$
Prom the tamps
Prom Halfelds $\qquad$
Mark..1

| Mines. | $\begin{aligned} & \text { Description of } \\ & \text { Work. } \end{aligned}$ | \|rathoms.|Peet |  |
| :---: | :---: | :---: | :---: |
| Deep Adit |  |  | 2 |
| ailowed oid |  |  |  |
| Bandeira Min | ${ }^{\text {b }}$ | $6$ |  |
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| ping the bottom of | Do. | $8$ |  |
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| neo Shat |  | ) |  |
| new end weat of Morge | Do. | 1 |  |
| Malfeld's Rive. | Driven Run. |  |  |

accidents in mines.-The davy lamp

## Extract from the Evidence of G. Gurney. Esq, before the Parliamentar

What is your profesion 1- My original profesion was meticines; aring the lai ten yean or my lie.
 uorth.
You are aware of the fact, that the mining distriets of the North or
Eagiand particularly are annoged by what is calied fire damp t-1 anm Are you nequainted with the nature of freedamp $1-11$ is a subje

 WWil you have hainted with the nature of "fire damp" gencraly. tion of the nature of firedap f-Fire damp is generally a mixture
Carbureted had hatrogen,
and atmospheric air; sonetimes it contains
 other guecuas mixturea; but those first stated form the prineipal.

 mopplherie airs


 The reasen what is ap iliced. If I red h heat, a red hot iron for instance,
which is hbout soo digroes, be plunged into a certain quantity of fire



 vill take fire,
Under tho

















nisily wemmbling carbon t-1 ame bet practionlly avare of it; 1 bave pantices roould be epecificalty lighter thas vhat is celled the cem. Pormation of moalt-Theg zoobl, and dhas in the athaypherd, te-


$$
\begin{aligned}
& \text { lieb } \\
& \text { sent } \\
& \text { tent }
\end{aligned}
$$










 Give the Committee your general opiniso of the comparative safety
that lamp 1-1 think the lamp is perfecty safe if the atmosplere is $k$ kp





 Wra time under tome circumstances, and dive notiee of a dangerous stai or the atmonphere by tho oberved phemomena in such casess
You are not anare, as not being a paxticial miner, wheter
 of flame 1-No; I do mot of myself krow it, 1 have heard it stated.
Was the lamp of which you spak surrounded thy a glase elhamber!$\mathrm{N}_{\text {is }}$ it not frequcndy so constructel ! -1 undertand it is now ofen so con Unite those cirsumstanees, what would be your opiaion of it safty,
thiak, if the glas is kept sound it will remove muech of the danger of the lawp, but not all; there raust be an inlet for nair to fod, and an outlet for
it to oseape from tie lamp, which 1 do not see can bo protected by ghass.


Then upon the whole, as a matter of affety, you think it has been over
rated $1-1$ think it has, so far as 1 have been informed upon the subject; do not know to what catent it may of may not have been over-rated. T You have not had mueh ospricene of its practieal effects; have you
 that many mines migbt bo workel with comparative safety with such an instrument, in lisu of candlest-1 think they might, es tainly.
A variaty of preseing mather hitherto prevented as from introilucing to
the notioe of our readers the following-
 Whereas it is expedenet tomanake cortain, aditiona to nod alterations






















 nany person, party to ong former suit or action touching such irat letters
patent, thal be entited to have potice of such petition belore present-


 is difficult to decide to which process a proference ought to be given,
the loss is les in the ovens, but they require more space more att
tendants, and more expence, while the open arbonization is considered
to yield coke better adapted for smelting in the higa furance.- Mining to yield
Reviees.

## MISCELLANEA.

Ner Hydrostatic Enging.-We have had an opportunity of an-
amining the recent discovery made by the Rev. J. T. Porter, of the Close, of this city, which he has named an hydrostatic engine, astonishing power of steam. The principle upon which the engine
acts is the well known law of nature, "the pressure of fluids." The construction of the apparatus is simple, consisting of four cylinders,
each of them having four pistons. The double acting power of the model is put in motion by only twenty. five ounces of water, assisted
by the lever. Some idea may be formed of the force of the pressure. when we say that, with the stroke of the piston of one of the cy-
linders, an ash bough, of an inch and a halr diameter, wes brokes with the greatest ease. The Rev. gentleraan is very sanguine as to the ultimate success of his discovery, and affirms, that a ship,
laden with the usual freight, may take a trip to the East Indies and laden with the usual freight, may take a trip to the East Indies and
back, the engine requiring for its total supply not mose than half a
hogshead of spring water. From what we tave seen we have no hogshead of spring water. From what we have seen we have no
doubt that Mtr. Porter will meet with succes. He has our bet
wishes to that effect, and we beg to call the attention of the scientific world to this singular and valuable discovery. A circumstance con-
nected with it, (not the least valuable) is, that unlike steam, not the slightest danger is to be apprehended from any accidental derangement of the machinery.- Salishury Chromicle.
the warmest place on the surface of the globe is mearly 20 degrees of Fahrenheit below the standard heat of the body; so that clothing
of one sort or another seems to be requisite in every region as 2 defence against external cold.
Dary Lamp. $-1 n$ the Marquis of Londonderry's Colleries alove
there are arandy 900 Dary Lamps in daily use. Strase,-A cubic inch of water being converted into steam will, by
the condenation of that steam, raise a ton weight a foot bigh-Lardner's Steam Engine.






 iold 450
 At Neath Abbey the carbonization is more rapuit than in any other place, of coke. In Scotland, calcination in the open air is generally adopted;
formery the heaps were burped without formerly the heaps were burned without much attention boing paid to
their progress, but the Staflordshire mode has been used latterly with
great advantage, the heaps consisting of eighteen tons of canl well covered with slack, kept burning three on feor days, uad four or five well
more being allowed for the cooling of the mass, the loss in weight is loss anounted to from sixty to eixty-six per cent. The coke is of very
unequal quality, some parts beiag very heavy and others light and porous. In Yorkshime the coas is argarnged in long banks, six feet wide, hy
two and a half bight, with square vertical chimmeys, eight or nine inches in dianeter, forrued with large coals, at about the distance of six feet
from each other throughoat the length; the loss is about fifly per cent. Calcina open calcinatios, the preeess veries but little, beang in all cases per.
formed in ovens of a circular or oval form, with a low arch surmounted
with a inens with a small chimney, the furnace has two doors or openings opposite to
ench other, aliding in a groove and raised by a lever, they nre usnally of
cal cast iron. the dumensions of the furnace about twelve feet by six; height
of the arch in the centre five feet, at the door tweaty-one inches; the At Neath Abbay the furnacess are smaller ; the chimnes is is eighteen
inches externally, and only inches exlernaily, and only one door, but in this case a hole is made in
the opposite side to faciliate the clearigg out of the coke. Froun the
nnall ecoal carbonized in this manaer the praduce is about sixty per
tent per cent., the coke from the furnace being so. much more dense. At In the vicinity of Glasgows a circular oven widh one door is in use, tho
diameter is aine frest and diameter is nise feet, beight of the arch six feet. The coke is drawa oout
every twenty-four hours, the ordinary charge, one ton nad a half of
coal, rising aboul two and a balf feet io the oven, the loss is from fity to sixty per cent. On Satuedays the charge is inecreased to to toms, and is
not withdrawn until the Moday. At the Lsaington works, near New-
castle-apon-T gne, all the coke is made in
 aid the average loss thirty-nine per cent. The coke is screeard to the
diameter of noout oae iach, for smelting in the high furnacc, the smallier
portion being employ ed in roastiag the oras. At Bradford, in York.
 the attention, and judguent of contrary is the fact, mueh depending on fifty per gields twetve cwt.of coke or sixty per cent., sometimes ten ewt.

Prionomy.-The prizes of astronomy, founded by the celebrated Lelonde, were conferred by the Royal Academy of Sciences of Paris,
ish
and is its annaal sining of South Wales, and to M. Boguslawski, the Dinetop of we Thif.-One of the rid.
Porrunate Tiff.- One of the richest men in England is the Rev.
 le mes in part proprietor of a traten piece ore honey (a very small
tibrige was then in treaty. The purchase sm) was agreed upon; but the nobleman not keeping his appoint. and give him another meeting. On the above-mentioned barren pine of ground were subsequenyy divcoverxad he rich Anglesea Thposphire Independent.
Irou Pyrites-Bisulpt.
Irpo Pyrites- Bisulupharet of iron, the iron pyrites of minera-
Pids exist abundantly in the earth; it occurs in cubes, or some hijts, exist abundantly in the earth; it occurs in cubes, or some
aid form, has a yellow colour, metallie lustre, a density of 4,981 , ad is so band that it strikes ffre with steel. Some varieties have a thite colour, but these usually contain arsenic, others occur in runded nodutes, have a radiated structure are arged fiem a common the neafeence of air and moisture to vield sulphate of oxide of iron, hese ve suspected by Berzeleus to be compounds of protosulpharet and lisulphuret of iron. Bisulphuret of iron is not attacked by any of dee ecids except the nitric, and its best solvent is the nitro-hyiru-
dibric acid. Heated in close vessels it gives of nearly half its


PRON THE LONDON GAZETTE.
Tuestay, Jon. 12.
Nekships Disownen









 mech-manufacturen. mankRUPTs.









 Mrion dividesps.



 Cartificates to be granted, unlest caase b,



Friday, Jamury 16, 1836.








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 Nowe wingto


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## COMMERCIAL INTRLLIGENCE.




































## CORN EXCHANGE, LONDON, Jan. 15.











## 





NEWGATE and LEADENHALL-By Un Carize

##  <br> 

The price of candles.

 Retern hiv







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